Bebbitt Silt Lean 82-ID-0559 (821D-009-4)

Classification: loamy-skeletal, mixed, mesic Ultic Argixerolls.

General Site Characteristics

Location: Benewah County, Idaho; 758 feet S. & 2388 feet W. of NE corner sec. 25, T. 46N., R. 2N.; approx. 1.5 miles ESE of St. Maries, Idaho.

Forest:

Area: Welf Draw

Described By/Date: Soil Conservation Service personnel on April 7, 1982

Parent Rock/Material: loess over basalt

Habitat Type: Douglass fir/snowberry; Douglass fir, ponderosa pine, snowberry, Idaho

fescue, strawberry.

Topography: very steep

Landform: canyon slope (escarpment)

Weathering: Formation Name:

Slope: 55 percent Aspect: west

Elevation: 2680 feet

Soil Depth:

Eff. Rooting Depth:

Litter Type:

Surface Rock:

Climate: mesic

Precipitation:

Eresien: slight

Infiltration: Permeability:

Starage:

Drainage: well

Air Temp:

Soil Temp at 28 inches:

Salt/Alkal:

Remarks: Slumping of soil is evident.

Pedon Description

- Oi 5-3 cm. Needles, twigs, leaves, cones, moss (Mt. St. Helen's ash mixed in).
- 3-0 cm. Decomposed organic matter. 0e
- 8-8 cm. Brown (7.5YR 5/2) silt loam, dark brown (7.5YR 3/2) moist; moderaate very fine and fine granular structue; slightly hard, friable, slightly sticky and slightly plastic; slightly acid pH 6.2; many very fine, comon fine and medium, few coarse roots; many very fine and fine tubular pores; no gravels by weight; clear wavy boundary.

- A2 8-31 cm. Brown (7.5YR 5/2) silt loam, dark brown (7.5YR 3/2) moist; weak fine and medium subangular blocky structure parting to moderate very fine and fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; moderately acid pH 5.9; common very fine, fine, medium, and coarse roots; common very fine and fine, few medium tubular pores; no gravels by weight; clear wayy boundary.
- Bti 3i-48 cm. Brown (10YR 5/3) loam, dark brown (10YR 3/3) moist; moderate medium and coarse subangular blocky structue; hard, firm, sticky and plastic; moderately acid pH 5.8; common very fine, fine, medium, and few coarse roots; common very fine and fine, few medium tubular pores; 23 percent gravels by weight; common moderately thick clay films lining ped faces and pores; clear wavy boundary.
- Bt2 48-81 cm. Pale brown (10YR 6/3) gravelly loam, brown to dark brown (10YR 4/3) moist; moderate medium and coarse sobangular blocky structure; hard, firm, sticky and plastic; moderately acid pH 5.8; common very fine, fine, and medium routs; common very fine, few fine and medium tubular pores; 35 percent gravels by weight; common moderately thick clay films lining ped faces and pores; abrupt irregular boundary.
 - R 8i+ cm. Mard fractured basalt.

Pedon: Bobbitt Silt Loan 82-ID-0559 (821D-009-4)

Date: June 1984

Sample No.	Herizon		_11	3	W N. A	A:3-k3-	1944 Min 1956 Spir yanning Side (* 15 + 16 * 16 + 16 + 16 + 16 + 16 + 16 + 16	C4:-			
		Depth	pH paste	EC#10	Z Water at Saturation	Available P	Di-Citrate Fe	Extract Al	Pyropirosphate Fe	Extract Al	Spedic
	************	CA		mmhes/cm		ppn			2		
	0i Oe	5- 3 3- 8	NS NS	NS NS	NS 2N	NS NS					
1 2	Oi Oe Ai A2 Bti Bt2	0- 6 8-31	6.2 5.9	1.20 1.42	56 46	NS NS 17.4 14.4					
4	811 812 R	3- 0 0- 6 8-31 31-48 48-81 81+	NS NS 6.2 5.8 5.8 NS	NS NS 1.20 0.42 0.29 0.30 NS	NS NS 56 46 44 48 NS	9.6 3.9 NS					

Sample No.	Exchangeable Ions Ext. Acidity			Ext. Acidity	CEC	Base	OM	OC	N	C:N	Seil		
	Ca	Нg	Na	K	H		Saturation					Fraction	NaF pH
	neq/100 gms						Z		7	ratio			
1234	NS 27.5 22.8 22.0 26.1 NS	NS 4.8 5.3 6.3 7.0 NS	NS NS 1.5 1.6 1.6 NS	NS NS 2.0 1.4 1.1 0.8 NS	NS NS 10.4 12.6 11.4 11.2 NS	NS NS 35.4 32.8 34.5 35.5 NS	NS 77 70 73 75 NS	NS NS 6.85 2.56 1.59 1.16 NS	NS NS 3.98 1.49 0.92 0.67 NS	NS NS 0.163 0.087 0.056 0.037 NS	NS NS 24 17 16 18 NS	NS NS 1.08 1.00 0.77 0.65 NS	NS NS 8.8 8.6 8.4 8.3 NS

Remarks: CEC's were leached with 19% NaCl.
CEC's and nitrogens were run by steam distillation.
Extractable cations were run on the Jarrel Ash atomic absorption.
NS - no sample

Analysis by: Debbie Eisinger Pedon: Bobbitt Silt Loam 82-ID-0559 (82ID-009-4) Date: May 1984

			Particle Size Distribution (mm)										
Depth	VCS	CS	MS	FS	VFS	TS	15	ìi	TC	>2	88	Textural	
	2-1.0	1-0.5).5-0.25	0.25-0.1	0.1-0.05	2-0.05	0.05-0	.002	<0.002	wt.	vol.	Classes	
C B				7							-1		
5- 3 3- 0 0- 8 8-31 31-48 48-81 81+	NS NS 3.30 2.64 1.95 3.75 NS	NS NS 2.85 3.55 3.39 6.21 NS	NS NS 2.46 3.22 3.30 5.34 NS	NS NS 5.95 7.26 8.16 12.67 NS	NS NS 9.34 10.27 10.21 12.05 NS	NS NS 23.91 26.94 27.00 40.02 NS	53. 50. 46. 2 38.	15 08	NS NS 22.57 22.91 26.92 21.56 NS	NS NS none none 23 35 NS		NS NS Silt loam Silt loam Loam Gravelly loam NS	
	Silt	Size Distrit	oution (mm)				Water	Content	Liq	uid	Plastic	Plastic	
Depth	CoSi	Msi	F	si	Bulk Der	sity	1/3	15	Lin	i t	Limit	Index	
	0.05-0.0	02 0.02-0.00	0.005	-0.002	Clod	Core	Bar	Bar				,	
C B		I			g/ca			7			7		
5- 3 3- 0 0- 8 8-31							NS NS 42.6 35.6	NS NS 29.7 25.5					
31-48 48-81 81+							32.4 33.0 NS	25.5 25.0 NS					

Remarks: Samples were run by the centrifuge method, 5% sodium hexametaphosphate added, sonified, and carbonates were not removed.

NS - no sample

Analysis by: Anita L. Falen